Averages

Averages

Objective: Students learn to find the average of 2, 3, 4, and 5 numbers.

Students add 2-5 numbers to find the total, then divide to find the average.

Fractions

Fractions Times Fractions

Objective: Students learn to multiply a fraction by a fraction.

Aided by graphics, students multiply fractions (halves through tenths) by fractions, then reduce the products to lowest terms.

Fractions Times Whole Numbers

Objective: Students learn to multiply a fraction by a whole number.

With the aid of graphics, students multiply fractions (halves through ninths) by whole numbers, then rewrite the products in lowest terms.

Care of Disks

The micro-software program is recorded on the magnetic coating of the program disk, which is permanently sealed inside a protective cover. Do not touch the surface of the disk that is visible through the oval cutout in the protective cover. When the disk is not in use, it should be returned to its own envelope and stored in a safe place away from dust, magnetic fields, and temperature and humidity extremes. Do not bend, staple, or write on the disk or its protective cover with ball point pen or pencil.

Warranty

Troll Associates provides a lifetime guarantee on Troll micro-software disks. If any program disk is accidentally damaged or ever fails to load or run, simply return it to us for a free replacement.

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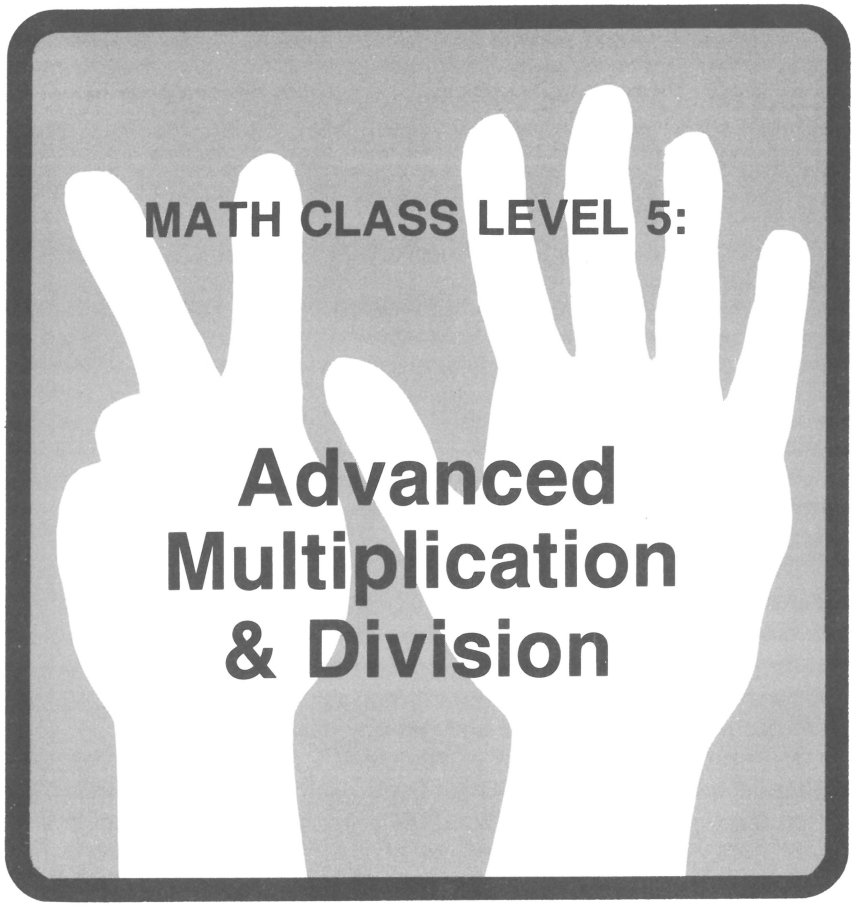
Troll MICRO

COURSEWARE

USER'S GUIDE



Troll Micro-Software

Troll Math Class

Level 5: Advanced Multiplication & Division Micro User's Guide

System Requirements

1. Apple IIgs, IIc, IIe, II+, or II (with Applesoft and at least 48K of RAM).
2. One disk drive.
3. A TV set or video monitor (color is recommended).

How to Use This Program

Troll Math Class is designed to introduce students to basic math skills in a format that is entertaining as well as educational. Each level focuses on a specific concept and includes a variety of activities to teach and reinforce that skill. **Level 5: Advanced Multiplication & Division** provides practice in long multiplication, long division, multiplying and dividing decimals, and multiplying fractions.

Getting Started

Insert the program disk into the disk drive with the label facing up and the oval cutout facing away from you. Close the door on the disk drive and turn on the monitor and computer. The red light on the disk drive will light up as the program loads.

NOTE: Some Apple computers require that PR#6 be typed before the program begins loading.

When the program has loaded, the Troll logo will appear, followed by the title. The student is then asked to enter his or her name, and whether sound is desired. Then the first menu appears.

1) Multiplication
2) Division
3) Averages
4) Fractions

The student presses 1, 2, or 4 to choose either the Multiplication, Division, or Fractions menu. A second menu will then appear. (If the student presses 3, the Averages activity will load and run automatically.)

Multiplication	Division	Fractions
1 Single Digit	1 Single Digit	1 Fractions Times Fractions
2 Two Digit	2 Two Digit	2 Fractions Times Whole Numbers
3 Decimals	3 Decimals	

To choose an activity from the menu displayed, the student simply presses the number of the desired activity. The activity will load and run automatically.

Special Keys

	H	Help
CONTROL	X	Return to First Menu
CONTROL	O	Turn Sound On or Off

Multiplication

Single Digit

Objective: Students learn to multiply 2-, 3-, 4-, and 5-digit numbers by a 1-digit number.

A multiplication problem is presented. The student multiplies from right to left and enters the result of multiplying each digit.

Two Digit

Objective: Students gain practice multiplying 2-, 3-, and 4-digit numbers by a 2-digit number.

Students begin with multiples of 10, then advance to other 2-digit multipliers. Multiplication is done on screen, step by step. In a final activity, students estimate products.

Decimals

Objective: Students work with tenths, hundredths, and thousandths, and learn to multiply decimal numbers.

Students multiply the same way as they would with whole numbers, then insert the decimal point at the appropriate place.

Division

Single Digit

Objective: Students practice long division with 1-digit divisors and 3-digit dividends.

Students identify the divisor, dividend, quotient, and remainder. Then they work step by step to complete long division problems with remainders.

Two Digit

Objective: Students practice long division with 2-digit divisors and 4-digit dividends.

A special calculator allows students to find multiples of the divisor to help them complete long division problems with remainders.

Decimals

Objective: Students practice long division of decimals.

Students work step by step to complete long division problems with decimal dividends.